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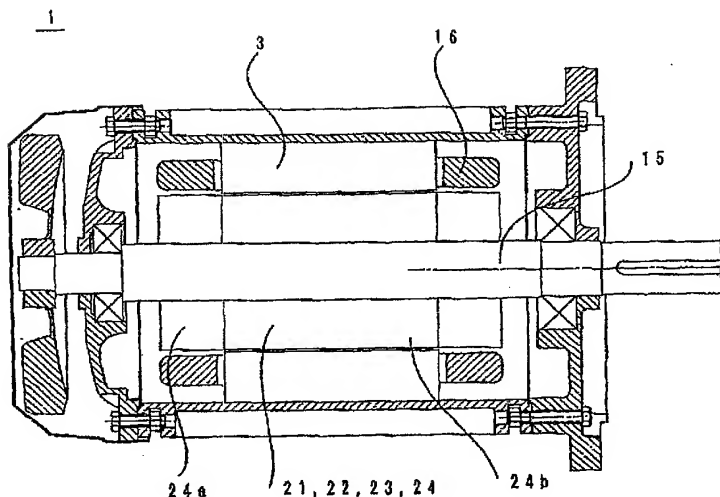
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(54) Title: ROTARY MACHINE AND ELECTROMAGNETIC MACHINE



(57) Abstract: The objective of the present invention is to provide a configuration of the permanent magnets used for rotors in a rotating electronic device and the method of utilizing the same, thereby improving the efficiency, performance and output thereof. It also intends to provide a rotating electronic device that can be miniaturized. To achieve the above objectives, permanent magnets are arranged radially and circularly on a rotor to control the magnetic flux generated by permanent magnets arranged radially on the rotor to be approximately twice as much as the primary magnetic flux generated by permanent magnets arranged circularly thereon. On the rotating surface of the rotor, a secondary magnetic flux is provided and a shape and width of the grooves are modified such that the magnetic flux distribution resulting from the overall interaction of each magnetic flux generated in each magnetic pole on the rotor appears substantially as a sine wave.

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